

Title (en)

HIGH VELOCITY ELECTROSTATIC COALESCING OIL/WATER SEPARATOR

Title (de)

ELEKTROSTATISCHER COALESCING-ÖL/WASSER-TRENNER MIT HOHER GESCHWINDIGKEIT

Title (fr)

SÉPARATEUR D'HUILE/EAU À COALESCENCE ÉLECTROSTATIQUE À HAUTE VITESSE

Publication

EP 2858732 A1 20150415 (EN)

Application

EP 13729236 A 20130607

Priority

- US 201213491890 A 20120608
- US 2013044727 W 20130607

Abstract (en)

[origin: WO2013185040A1] An apparatus and method for separating water from an oil-and-water mixture includes at least two elongated separator vessels (64, 66) oriented at an incline and connected to one another so that an upwardly flowing oil predominant fluid passes from the first separator vessel (64) to the second separator vessel (66) where further electrostatic separation of water from the oil predominant fluid occurs. Each vessel has an electrode (60) at its upper end preferably connected to a different voltage source. The inlet to each vessel is located relative to the electrode (60) to provide an up flow or a down flow vessel. Additionally, the first vessel (64) may be at a different elevation than the second vessel. An additional vessel may be included with output from the first vessel bypassing the additional vessel, the second vessel, or both. Baffles (134) may be added in the water collection portion (138) of each vessel to reduce turbulence and settling distance.

IPC 8 full level

B01D 17/04 (2006.01); **B01D 17/06** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2013185040A1

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WO 2013185040 A1 20131212; BR 112014030008 A2 20170627; CA 2875203 A1 20131212; EP 2858732 A1 20150415; EP 2858732 B1 20181114; EP 3513854 A1 20190724; EP 3513854 B1 20220420; MX 2014015027 A 20150622; MX 360277 B 20181025; US 2013327646 A1 20131212; US 9095790 B2 20150804

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